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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/527,338	03/10/2005	Kazunori Kusano	P26462	3526

7055	7590	05/23/2007
GREENBLUM & BERNSTEIN, P.L.C.		
1950 ROLAND CLARKE PLACE		
RESTON, VA 20191		

EXAMINER	
SINGH, SUNIL K	

ART UNIT	PAPER NUMBER
3732	

NOTIFICATION DATE	DELIVERY MODE
05/23/2007	ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gbpatent@gbpatent.com  
pto@gbpatent.com

## Office Action Summary

Application No.

10/527,338

Applicant(s)

KUSANO, KAZUNORI

Examiner

Sunil K. Singh

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 10 March 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 March 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 06/10/2005.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_.

## **DETAILED ACTION**

### ***Specification***

1. The abstract of the disclosure is objected to because it contains the legal phraseology "comprises". Correction is required. See MPEP § 608.01(b).
2. The disclosure is objected to because of the following informalities: On page 5 [0011], the second sentence is a compound run-on sentence.

Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 1-4, and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Kusano (US 6,508,647).

Kusano discloses a kit (Figs. 7 and 8) that includes: a probe syringe (1); a current detector device (101); a discharge part (4) formed with a flexible hollow material (Column 6, Lines 40-41); a cylinder part (2) continuous to said discharge part and retaining an ion conductive paste (D) (Fig. 3a); a piston (3) inserted into cylinder (Fig. 3a); and an electric conductive member (10) (Column 7, Lines 1-10) connecting inner and outer areas of said probe syringe and disposed across the discharge part (Figs. 3a and 3b) (Column 3, Lines 28-45); and the ion conductive paste comprises conductive

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material selected from the group propylene glycol (Column 4, Line 33; and Column 2, Line 57).

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kusano (US 6,508,647) in view of Caizza (US 5,964,737).

Kusano discloses the invention substantially as claimed except for a syringe having a discharge part made of silicone rubber.

Caizza teaches a syringe having an end piece (34 in Fig. 2b) made out of silicone rubber in order to provide a tip with elastomeric properties (Column 7, Lines 43-50). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Kusano by having the discharge part of the syringe being made of silicone rubber, as taught by Caizza, in order to provide a syringe tip with elastomeric properties.

7. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kusano (US 6,508,647) in view of Enomoto et al. (US 6,889,433).

Kusano discloses the invention substantially as claimed except for a device where the ion conductive paste has the viscosity from 0.1 Pa-s to 5 Pa-s.

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Enomoto teaches an invention teaches an invention using a conductive paste having a low viscosity from the range of 0.1 Pa-s to 5 Pa-s (Column 5, Lines 55-58). Enomoto further teaches that conductive pastes with lower viscosity will have a lower amount of conductive filler and thus resulting reducing the amount of air bubbles being formed when filling the conductive paste (Column 1, Lines 39-50). Therefore, it would have been obvious to one having ordinary skill in the art to modify Kusano by having a conductive paste with a viscosity ranging from 0.1 Pa-s to 5 Pa-s, as taught by Enomoto, in order to reduced the amount of air bubbles being formed when filling the paste.

### ***Conclusion***

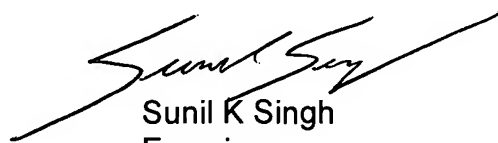
8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892 Form.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sunil K. Singh whose telephone number is (571) 272-3460. The examiner can normally be reached on Monday-Friday 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cris L. Rodriguez can be reached on (571) 272-4964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Sunil K Singh  
Examiner  
Art Unit 3732

SKS  
05/01/2007



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